

QY	1035	CCCTTTCAATAAATAGATTAAAGTAAAAA		1077
DB	1021	CCCTTTCAATAAATAGATTAAAGTAAAAA		1063
<div style="border: 1px solid black; padding: 5px;">         RESULT 3          AAV59558          ID AAV59558 standard; DNA; 1049 BP.  <del>XX</del> </div>				
AC	AAV59558;			
XX	XX			
DT	06-JAN-1999	(first entry)		
DE	XX			
KW	Human secreted protein gene 48 clone HFCA174.			
XX	Human; secreted protein; fusion protein; gene therapy; gene therapy; protein; tissue; cancer; tumour; neurodegenerative disease; diagnosis; tissue; cancer; tumour; neurodegenerative disease; developmental abnormality; foetal deficiency; blood; allergic immune system; asthma; lymphocytic disease; brain; hepatic inflammation; ischaemic shock; Alzheimer's disease; retinal cognitive disorder; schizophrenia; prostate; obesity; thyroid osteoporosis; arthritis; testis; lung; thyroiditis; thyro endocrine; metabolism; regulation; malabsorption; gastrit			
XX	Homo sapiens.			
PN	WO9839448-A2.			
PD	11-SEP-1998.			
XX	XX			
Pf	06-MAR-1998;	98MO-US00404493.		
XX	XX			
PR	07-MAR-1997;	97US-0038621P.		
PR	07-MAR-1997;	97US-0040161P.		
PR	07-MAR-1997;	97US-0040162P.		
PR	07-MAR-1997;	97US-0040163P.		
PR	07-MAR-1997;	97US-0040333P.		
PR	07-MAR-1997;	97US-0040334P.		
PR	07-MAR-1997;	97US-0040335P.		
PR	07-MAR-1997;	97US-0040628P.		
PR	11-APR-1997;	97US-0043311P.		
PR	11-APR-1997;	97US-0043312P.		
PR	11-APR-1997;	97US-0043313P.		
PR	11-APR-1997;	97US-0043314P.		
PR	11-APR-1997;	97US-0043315P.		
PR	11-APR-1997;	97US-0043568P.		
PR	11-APR-1997;	97US-0043569P.		
PR	11-APR-1997;	97US-0043578P.		
PR	11-APR-1997;	97US-0043578P.		
PR	11-APR-1997;	97US-0043580P.		
PR	11-APR-1997;	97US-0043669P.		
PR	11-APR-1997;	97US-0043670P.		
PR	11-APR-1997;	97US-0043671P.		
PR	11-APR-1997;	97US-0043672P.		
PR	11-APR-1997;	97US-0043674P.		
PR	23-MAY-1997;	97US-0047492P.		
PR	23-MAY-1997;	97US-0047500P.		
PR	23-MAY-1997;	97US-0047501P.		
PR	23-MAY-1997;	97US-0047502P.		
PR	23-MAY-1997;	97US-0047503P.		
PR	23-MAY-1997;	97US-0047581P.		
PR	23-MAY-1997;	97US-0047582P.		
PR	23-MAY-1997;	97US-0047583P.		
PR	23-MAY-1997;	97US-0047584P.		
PR	23-MAY-1997;	97US-0047585P.		
PR	23-MAY-1997;	97US-0047588P.		
PR	23-MAY-1997;	97US-0047588P.		
PR	23-MAY-1997;	97US-0047589P.		
PR	23-MAY-1997;	97US-0047590P.		
PR	23-MAY-1997;	97US-0047592P.		
PR	23-MAY-1997;	97US-0047593P.		

 $\frac{1}{5}$



764 CATTAGTGGCAAAATCAGAGCAAGAGGATGCGCTTCCCAATTCCTCATCTCT 823  
721 CATTAGTGGCAAAATCAGAGCAAGAGGATGCGCTTCCCAATTCCTCATCTCT 780  
824 TTATGCCGAGAGATCTCAGCTGGATGCGCAACATGTCGATGCGCTGGAGACATGCC 883  
781 TTATGCCGAGAGATCTCAGCTGGATGCGCAACATGTCGATGCGCTGGAGACATGCC 840  
884 GACGCTCTCTGCTAGGAGCAGGATGCGCTTGGGCTAGGCGAGTGGAAAAATTCGAGA 943  
841 GACGCTCTCTGCTAGGAGCAGGATGCGCTTGGGCTAGGCGAGTGGAAAAATTCGAGA 900  
944 CTTTTTACGACTGTTTTGTTTTTAAATGTAATTTTTTATGCGTACATTTATGTTAGG 1003  
901 CTTTTTACGACTGTTTTGTTTTTAAATGTAATTTTTTATGCGTACATTTATGTTAGG 960  
1004 ACAAGTGGTGGGCACTTATTTATGCGCTTTCATTAATAGATTTAAGTAAAAA 1063  
961 ACAAGTGGTGGGCACTTATTTATGCGCTTTCATTAATAGATTTAAGTAAAAA 1020  
1064 AAAAAAAAAAAAAA 1077  
1021 AAAAAAAAAAAAAA 1034  
RESULT 4  
ID ABS73545  
XX AC ABS73545 standard; cDNA; 1049 BP.  
XX AC ABS73545;  
XX DT 15-JAN-2003 (first entry)  
XX DE Human cDNA #1 for novel secreted protein gene 48.  
XX KW Human; ss; Gene; secreted protein; autoimmune disease; chemotaxis;  
XX KW rheumatoid arthritis; hyperproliferative disorder; breast neoplasm;  
XX KW liver neoplasm cardiovascular disorder; cardiac arrest; skin aging;  
XX KW cerebrovascular disorder; cerebral ischaemia; angiogenesis; sunburn;  
XX KW nervous system disorders; Alzheimer's disease; infection;  
XX KW ocular disorder; corneal infection; wound healing; tissue regeneration;  
XX KW epithelial cell proliferation; organ transplantation; food additive;  
XX KW preservative; nutritional.  
XX OS Homo sapiens.  
XX FN US6420526-B1.  
XX PD 16-JUL-2002.  
XX PF 08-SEP-1998; 98US-00149476.  
XX PF 07-MAR-1997; 97US-0038621P.  
XX PF 07-MAR-1997; 97US-0040161P.  
XX PF 07-MAR-1997; 97US-0040162P.  
XX PF 07-MAR-1997; 97US-0040163P.  
XX PF 07-MAR-1997; 97US-0040333P.  
XX PF 07-MAR-1997; 97US-0040334P.  
XX PF 07-MAR-1997; 97US-0040336P.  
XX PF 07-MAR-1997; 97US-0040626P.  
XX PF 11-APR-1997; 97US-0043311P.  
XX PF 11-APR-1997; 97US-0043312P.  
XX PF 11-APR-1997; 97US-0043313P.  
XX PF 11-APR-1997; 97US-0043314P.  
XX PF 11-APR-1997; 97US-0043315P.  
XX PF 11-APR-1997; 97US-0043568P.  
XX PF 11-APR-1997; 97US-0043569P.  
XX PF 11-APR-1997; 97US-0043576P.  
XX PF 11-APR-1997; 97US-0043578P.  
XX PF 11-APR-1997; 97US-0043580P.  
XX PF 11-APR-1997; 97US-0043589P.  
XX PF 11-APR-1997; 97US-0043609P.  
XX PF 11-APR-1997; 97US-0043670P.  
PR 11-APR-1997; 97US-0043671P.  
PR 11-APR-1997; 97US-0043672P.  
PR 11-APR-1997; 97US-0043674P.  
PR 23-MAY-1997; 97US-0047492P.  
PR 23-MAY-1997; 97US-0047500P.  
PR 23-MAY-1997; 97US-0047501P.  
PR 23-MAY-1997; 97US-0047502P.  
PR 23-MAY-1997; 97US-0047503P.  
PR 23-MAY-1997; 97US-0047581P.  
PR 23-MAY-1997; 97US-0047582P.  
PR 23-MAY-1997; 97US-0047583P.  
PR 23-MAY-1997; 97US-0047584P.  
PR 23-MAY-1997; 97US-0047585P.  
PR 23-MAY-1997; 97US-0047586P.  
PR 23-MAY-1997; 97US-0047587P.  
PR 23-MAY-1997; 97US-0047588P.  
PR 23-MAY-1997; 97US-0047589P.  
PR 23-MAY-1997; 97US-0047590P.  
PR 23-MAY-1997; 97US-0047592P.  
PR 23-MAY-1997; 97US-0047593P.  
PR 23-MAY-1997; 97US-0047594P.  
PR 23-MAY-1997; 97US-0047595P.  
PR 23-MAY-1997; 97US-0047596P.  
PR 23-MAY-1997; 97US-0047597P.  
PR 23-MAY-1997; 97US-0047598P.  
PR 23-MAY-1997; 97US-0047599P.  
PR 23-MAY-1997; 97US-0047600P.  
PR 23-MAY-1997; 97US-0047601P.  
PR 23-MAY-1997; 97US-0047612P.  
PR 23-MAY-1997; 97US-0047613P.  
PR 23-MAY-1997; 97US-0047614P.  
PR 23-MAY-1997; 97US-0047615P.  
PR 23-MAY-1997; 97US-0047617P.  
PR 23-MAY-1997; 97US-0047618P.  
PR 23-MAY-1997; 97US-0047632P.  
PR 06-JUN-1997; 97US-0048633P.  
PR 06-JUN-1997; 97US-0048964P.  
PR 13-JUN-1997; 97US-0048974P.  
PR 08-JUL-1997; 97US-0051926P.  
PR 16-JUL-1997; 97US-0052874P.  
PR 18-AUG-1997; 97US-0052724P.  
PR 22-AUG-1997; 97US-0052630P.  
PR 22-AUG-1997; 97US-0056631P.  
PR 22-AUG-1997; 97US-0056632P.  
PR 22-AUG-1997; 97US-0056636P.  
PR 22-AUG-1997; 97US-0056637P.  
PR 22-AUG-1997; 97US-0056662P.  
PR 22-AUG-1997; 97US-0056664P.  
PR 22-AUG-1997; 97US-0056845P.  
PR 22-AUG-1997; 97US-0056862P.  
PR 22-AUG-1997; 97US-0056864P.  
PR 22-AUG-1997; 97US-0056872P.  
PR 22-AUG-1997; 97US-0056874P.  
PR 22-AUG-1997; 97US-0056875P.  
PR 22-AUG-1997; 97US-0056878P.  
PR 22-AUG-1997; 97US-0056877P.  
PR 22-AUG-1997; 97US-0056878P.  
PR 22-AUG-1997; 97US-0056879P.  
PR 22-AUG-1997; 97US-0056880P.  
PR 22-AUG-1997; 97US-0056881P.  
PR 22-AUG-1997; 97US-0056882P.  
PR 22-AUG-1997; 97US-0056884P.  
PR 22-AUG-1997; 97US-0056886P.  
PR 22-AUG-1997; 97US-0056887P.  
PR 22-AUG-1997; 97US-0056888P.  
PR 22-AUG-1997; 97US-0056889P.  
PR 22-AUG-1997; 97US-0056892P.  
PR 22-AUG-1997; 97US-0056893P.  
PR 22-AUG-1997; 97US-0056894P.  
PR 22-AUG-1997; 97US-0056903P.  
PR 22-AUG-1997; 97US-0056908P.  
PR 22-AUG-1997; 97US-0056909P.

[illegible]

XX PA (HUMA-) HUMAN GENOME SCI INC.  
 XX PI Ruben SM, Rosen CA, Fischer CL, Soppet DR, Carter KC;  
 XX PI Bednarik DP, Endress GA, Yu G, Ni J, Feng P, Young PE, Greene JM;  
 XX PI Ferrie AM, Duan R, Hu J, Florence KA, Olsen HS, Ebner R, Brewer LA;  
 XX PI Moore PA, Shi Y, Lafleur DW, Li Y, Zeng Z, Kyaw H;  
 XX DR WPI; 1998-506364/43.  
 XX DR P-PSDB; AAW74778.  
 XX PT New isolated human genes and the secreted polypeptide(s) they encode -  
 XX PT useful for diagnosis and treatment of e.g. cancers, neurological  
 XX PT disorders, immune diseases, inflammation or blood disorders.  
 XX PS Claim 1; Page 280; 72lpp; English.  
 XX CC This sequence represents a nucleic acid molecule designated Gene 48 from  
 CC the human cDNA clone HFC1A174 (deposited as clone ATCC 97899 and ATCC  
 CC 209045) which encodes a secreted human protein. The gene can be used to  
 CC generate fusion proteins by linking to the gene to a human immunoglobulin  
 CC Fc portion (e.g. AAV59502) for increasing the stability of the fused  
 CC protein as compared to the human protein only. The invention relates to  
 CC 186 novel genes and their fragments (nucleic acid sequences: AAV59511-  
 CC V59812; amino acid sequences AAW74731-W75026) which are useful for  
 CC preventing, treating or ameliorating medical conditions e.g. by protein  
 CC or gene therapy. Also, pathological conditions can be diagnosed by  
 CC determining the amount of the new polypeptides in a sample or by  
 CC determining the presence of mutations in the new polynucleotides.  
 CC Specific uses are described for each of the 186 polynucleotides, based on  
 CC which tissues they are most highly expressed in (see AAV59511 for  
 CC described uses).  
 XX SQ Sequence 1049 BP; 223 A; 258 C; 303 G; 265 T; 0 U; 0 Other;

## Alignment Scores:

Pred. No.: 7.82e-51 Length: 1049  
 Score: 632.00 Matches: 121  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 2 Gaps: 0

US-10-001-885-125 (1-121) x AAV59558 (1-1049)

QY 1 MetValArgIleLeuAlaAsnGlyGluIleValGlnAspAspProArgValArgThr 20  
 DB 116 ATGTGCGGATCTGGCCATATGGGGAATCTGCGAGGACGACCCCGAGTCAGGACC 175  
 QY 21 ThrThrGlnProProArgGlySerIleProArgGlnSerPheAsnArgGlyHisGly 40  
 DB 176 ACTACCCAGCCACCAGAGGTAGCATCTCTCGACAGAGCTTCTTCAATAGGGGCCATGGT 235  
 QY 41 AlaProGlyGlyProGlyProArgGlnGlnGlnAlaGlyAlaArgLeuGlyAlaAla 60  
 DB 236 GCTCCCCAGGGGTCCTGGCCCCCGCCAGCAGCAGCGAGGTGCGAGGCTGGGTGCTGCT 295  
 QY 61 GlnSerProPheAsnAspLeuAsnArgGlnLeuValAsnMetGlyPheProGlnTrpHis 80  
 DB 296 CAGTCCCCCTTCAATACCTCAACCGGAGGTGTGAACATGGGCTTTCCGCGATGGCAT 355  
 QY 81 LeuGlyAsnHisAlaValGluProValThrSerIleLeuLeuLeuPheLeuLeuMetMet 100  
 DB 356 CTGGGCAACCATGTGTGGACCGGTGACCTCCATCTCTCTCTCTCTCTCTCTCTCTCTCT 415  
 QY 101 LeuGlyValArgGlyLeuLeuLeuValGlyLeuValTyrLeuValSerHisLeuSerGln 120  
 DB 416 CTGTGTGTCTGGGCTCTCTCTGTGGCTTGTCTACCTGTGTGTGTGTGTGTGTGTGTGTGT 475  
 QY 121 Arg 121  
 DB 476 CGG 478

RESULT 4  
 ABS73545  
 ID ABS73545 standard; cDNA; 1049 BP.  
 XX XX  
 AC ABS73545;  
 XX XX  
 DT 15-JAN-2003 (first entry)  
 XX XX  
 DE Human cDNA #1 for novel secreted protein gene 48.  
 XX XX  
 KW Human; ss; Gene; secreted protein; autoimmune disease; chemotaxis;  
 KW rheumatoid arthritis; hyperproliferative disorder; breast neoplasm;  
 KW liver neoplasm cardiovascular disorder; cardiac arrest; skin aging;  
 KW cerebrovascular disorder; cerebral ischaemia; angiogenesis; sunburn;  
 KW nervous system disorders; Alzheimer's disease; infection;  
 KW ocular disorder; corneal infection; wound healing; tissue regeneration;  
 KW epithelial cell proliferation; organ transplantation; food additive;  
 KW preservative; nutritional.  
 XX XX  
 OS Homo sapiens.  
 XX XX  
 PN US6420526-B1.  
 XX XX  
 PD 16-JUL-2002.  
 XX XX  
 PF 08-SEP-1998; 98US-00149476.  
 XX XX  
 PR 07-MAR-1997; 97US-0038621P.  
 PR 07-MAR-1997; 97US-0040161P.  
 PR 07-MAR-1997; 97US-0040162P.  
 PR 07-MAR-1997; 97US-0040163P.  
 PR 07-MAR-1997; 97US-0040333P.  
 PR 07-MAR-1997; 97US-0040334P.  
 PR 07-MAR-1997; 97US-0040336P.  
 PR 07-MAR-1997; 97US-0040626P.  
 PR 11-APR-1997; 97US-0043311P.  
 PR 11-APR-1997; 97US-0043312P.  
 PR 11-APR-1997; 97US-0043313P.  
 PR 11-APR-1997; 97US-0043314P.  
 PR 11-APR-1997; 97US-0043315P.  
 PR 11-APR-1997; 97US-0043568P.  
 PR 11-APR-1997; 97US-0043589P.  
 PR 11-APR-1997; 97US-0043566P.  
 PR 11-APR-1997; 97US-0043578P.  
 PR 11-APR-1997; 97US-0043580P.  
 PR 11-APR-1997; 97US-0043670P.  
 PR 11-APR-1997; 97US-0043671P.  
 PR 11-APR-1997; 97US-0043672P.  
 PR 11-APR-1997; 97US-0043674P.  
 PR 23-MAY-1997; 97US-0047492P.  
 PR 23-MAY-1997; 97US-0047500P.  
 PR 23-MAY-1997; 97US-0047501P.  
 PR 23-MAY-1997; 97US-0047502P.  
 PR 23-MAY-1997; 97US-0047503P.  
 PR 23-MAY-1997; 97US-0047581P.  
 PR 23-MAY-1997; 97US-0047582P.  
 PR 23-MAY-1997; 97US-0047583P.  
 PR 23-MAY-1997; 97US-0047584P.  
 PR 23-MAY-1997; 97US-0047585P.  
 PR 23-MAY-1997; 97US-0047586P.  
 PR 23-MAY-1997; 97US-0047587P.  
 PR 23-MAY-1997; 97US-0047588P.  
 PR 23-MAY-1997; 97US-0047589P.  
 PR 23-MAY-1997; 97US-0047590P.  
 PR 23-MAY-1997; 97US-0047592P.  
 PR 23-MAY-1997; 97US-0047593P.  
 PR 23-MAY-1997; 97US-0047594P.  
 PR 23-MAY-1997; 97US-0047595P.  
 PR 23-MAY-1997; 97US-0047596P.  
 PR 23-MAY-1997; 97US-0047597P.  
 PR 23-MAY-1997; 97US-0047598P.  
 PR 23-MAY-1997; 97US-0047599P.

APPENDIX - A

# 5/5